## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of claims:

(Previously presented) An isolated nucleic acid encoding a
polypeptide, wherein the nucleic acid comprises a polynucleotide sequence that is at
least 95% identical to a polynucleotide sequence as shown in SEQ ID NO:4, and
wherein the polypeptide, when produced in a solanaceous plant, confers disease
resistance in the plant.

## (Canceled)

 (Original) The nucleic acid of claim 1, wherein the polynucleotide sequence is SEQ ID NO:4.

## 4. (Canceled)

- (Previously presented) The nucleic acid of claim 1, wherein the nucleic acid is isolated from Solanum bulbocastanum.
- (Previously presented) The nucleic acid of claim 1, wherein the plant is from the Solanum species.
- (Original) The nucleic acid of claim 6, wherein the plant is selected from the group consisting of potato, tomato and eggplant.
- (Original) A nucleic acid of claim 1, wherein the polypeptide, when produced in a plant, confers disease resistance to an oomycete pathogen.

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- (Original) The nucleic acid of claim 8, wherein the oomycete pathogen is Phytophthora infestans.
- 10. (Previously presented) An isolated nucleic acid encoding a polypeptide, wherein the polypeptide comprises an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:5 and wherein the polypeptide, when produced in a plant, confers disease resistance in the plant.
  - (Canceled)
- (Previously presented) The nucleic acid of claim 10, wherein the polypeptide is SEQ ID NO:5.
- 13. (Previously presented) A recombinant expression cassette comprising a promoter sequence operably linked to a nucleic acid, wherein the nucleic acid comprises a polynucleotide sequence encoding a polypeptide comprising an amino acid sequence that is at least 95% identical to SEQ ID NO:5 and wherein the polypeptide, when produced in a solanaceous plant, confers disease resistance in the plant.
- 14. (Previously presented) The expression cassette of claim 13, wherein the nucleic acid comprises a polynucleotide sequence that is at least 95% identical to a polynucleotide sequence as shown in SEO ID NO:4.
- (Original) The expression cassette of claim 13, wherein the polynucleotide sequence is SEQ ID NO:4.
  - (Canceled)
  - (Canceled)
  - 18. (Canceled)

- (Original) The expression cassette of claim 13, wherein the polypeptide confers disease resistance to an oomycete pathogen.
- (Original) The expression cassette of claim 19, wherein the oomycete pathogen is *Phytophthora infestans*.
- (Original) The expression cassette of claim 13, wherein the promoter is a constitutive promoter.
- (Original) The expression cassette of claim 13, wherein the promoter is a tissue specific promoter.
- (Original) The expression cassette of claim 13, wherein the promoter sequence is SEQ ID NO:23.
- (Original) A host cell transformed with the expression cassette of claim 13.
- 25. (Original) The host cell of claim 24 wherein the host cell is a plant cell from a solanaceous plant.
- 26. (Previously presented) A transgenic solanaceous plant comprising a recombinant expression cassette comprising a promoter sequence operably linked to a nucleic acid encoding a RB polypeptide, wherein the nucleic acid comprises a polynucleotide sequence encoding a polypeptide comprising an amino acid sequence that is at least 95% identical to SEQ ID NO:5, and wherein the polypeptide, when produced in the plant, confers disease resistance in the plant.
  - 27. (Canceled)
  - 28. (Canceled)
- (Original) The transgenic plant of claim 26, wherein the polypeptide confers disease resistance to an oomycete pathogen.

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- (Original) The transgenic plant of claim 26, wherein the oomycete pathogen is *Phytophthora infestans*.
- (Previously presented) The transgenic plant of claim 26, wherein the plant is from the Solanum species.
- (Original) The transgenic plant of claim 31, wherein the plant is a
  potato plant.
  - (Canceled)
  - (Canceled)
  - 35. (Canceled)
  - 36. (Canceled)
  - 37. (Canceled)
- 38. (Previously presented) A method of enhancing disease resistance in a solanaceous plant, the method comprising introducing a construct comprising a promoter operably linked to a nucleic acid encoding a polypeptide comprising an amino acid sequence that is at least 95% identical to SEQ ID NO:5, and wherein the polypeptide, when produced in a plant, confers disease resistance in the plant.
- (Previously presented) The method of claim 38, wherein the nucleic acid comprises a polynucleotide sequence that is at least 95% identical to a polynucleotide sequence as shown in SEQ ID NO:4.
- (Previously presented) The method of claim 38, wherein the polynucleotide sequence is SEO ID NO:4.
  - 41. (Canceled)

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- (Original) The method of claim 38, wherein the promoter is SEQ ID NO:23.
- (Original) The method of claim 38, wherein the method enhances disease resistance to an oomycete pathogen.
- (Original) The method of claim 43, wherein the oomycete pathogen is Phytophthora infestans.
- 45. (Previously presented) The method of claim 38, the method further comprising selecting a plant with increased disease resistance.
  - 46. (Canceled)
- 47. (Original) The nucleic acid of claim 1 wherein the polynucleotide is labeled.
- 48. (Previously presented) An isolated nucleic acid comprising a polynucleotide sequence which hybridizes under stringent conditions to SEQ ID NO:4 or the complement thereof, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS or at 65°C in a solution comprising 5x SSC and 1% SDS, with a wash in 0.2x SSC and 0.1% SDS at 65°C, and wherein said nucleic acid encodes a polypeptide which, when produced in a solanaceous plant, confers disease resistance in the plant.
- 49. (Original) The nucleic acid of claim 48, wherein the plant is selected from the group consisting of potato, tomato and eggplant.
- (Original) A nucleic acid of claim 48, wherein the polypeptide, when expressed in a plant, confers disease resistance to an oomycete pathogen.
  - (Canceled)
  - (Canceled)

(Canceled)

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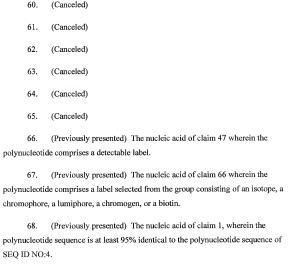
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69.	(Canceled)
09.	(Canceleu)

- 70. (Previously presented) The nucleic acid of claim 10, wherein the polypeptide is at least 95% aidentical to the amino acid sequence of SEQ ID NO:5.
  - 71. (Canceled)
- (Previously presented) The expression cassette of claim 13, wherein
  the polynucleotide sequence is at least 95% identical to the polynucleotide sequence
  of SEQ ID NO:4.
  - 73. (Canceled)
  - 74. (Canceled)
  - 75. (Canceled)
  - 76. (Canceled)
  - 77. (Canceled)
  - 78. (Canceled)
  - 79. (Canceled)
  - 80. (Canceled)
  - 81. (Canceled)
  - 82. (Canceled)

(Canceled)

83.

- 84. (Canceled)
- 85. (Canceled)